Nathan Joseph Savas

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Education

California State University, Long Beach   *Graduated: Dec 2021*
Bachelors (B.S) In Computer Science   *Concentration GPA: 3.52*
Relevant Coursework: Analysis of Algorithms, Artificial Intelligence, Intro to Computer Security, Database Fundamentals, Operating Systems, Object Oriented Application Development, Intro to Software Engineering

Experience

Amazon Web Services (AWS)   *Seattle, WA (Remote)*
Software Development Engineer Intern   *June 2020 - August 2020*
- Worked on the CodeGuru team to develop a visualization dashboard in React & Redux (TypeScript) that aggregates data from anomaly detection events to monitor activity over time
- Developed an algorithm to consolidate event data into a time series and designed custom Apache Echarts components (Gantt & Line chart) to render results
- Used the Redux-saga middleware library to write simplified asynchronous flows, isolate application side effects, and test functions using Jest

Siemens PLM Software   *Cypress, CA*
Software Engineering Intern   *May 2019 - January 2020*
- Worked with the NX CAD Validation team to develop a SaaS application using AngularJS that consolidates user design data by allowing customers to run visual reports on CAD models
- Developed an internal JavaScript client library for the NX cloud platform to provide methods for handling API protocols and rendering results in a navigation tree UI component
- Integrated tool with another library to tag bitmap images on designs directly in a WebGL viewer

Projects

Senior Project: PhotoSense.app ⭘ 🌐
Python, JavaScript, AWS
- Worked with a team of 5 to develop a face censoring AI system — deployed a Keras CV model as a RESTful API to process image requests from various clients (web app, bots, chrome extension)
- Integrated Flask API with Redis to process images in batch for optimized memory usage & latency
- Developed web-based drawing tools using the Canvas API to let users edit, add, and remove image segmentations

US City Chemical Release Visualizer ⭘
JavaScript, PostgreSQL
- Led a team of 3 to develop a full stack web application using React to visualize 30+ years of EPA toxic release data for waste facilities in US cities
- Developed a RESTful API with Express.js to fetch data from a PostgreSQL database
- Used the Mapbox JS SDK to plot geospatial data on a map interface and React-Vis to render visualization components

Skills

Programming Languages: Java, JavaScript, TypeScript, Python, C++, SQL, HTML, CSS
Frameworks/Tools: React, Redux, Express, Node, Git, PostgreSQL, Flask, Redis, Docker, AWS Core Services